U.S. ARMY COMBAT CAPABILITIES DEVELOPMENT COMMAND – AVIATION & MISSILE CENTER

Overview Brief
Deliver collaborative and innovative aviation and missile capabilities for responsive and cost-effective research, development and life cycle engineering solutions.
BY THE NUMBERS

Core Competencies

- Life Cycle Engineering
- Research, Technology Development and Demonstration
- Design and Modification
- Software Engineering
- Systems Integration
- Test and Evaluation
- Qualification
- Aerodynamics/Aeromechanics
- Structures
- Propulsion
- Guidance/Navigation
- Autonomy and Teaming
- Radio Frequency (RF) Technology
- Fire Control Radar Technology
- Image Processing
- Models and Simulation
- Weapons System Assurance

FY18 Funding

- $3.4B
- 7% Aviation S&T
- 8% Missile S&T
- 58% Army
- 27% Other

~9,553 FY18 Strength
2,943 Civilian
23 Military
6,587 Contractor

7%\n8%\n58%\n27%
#1: Readiness
Provide aviation and missile systems solutions to ensure victory on the battlefield today.

#2: Future Force
Develop and mature Science and Technology to provide technical capability to our Army’s (and nation’s) aviation and missile systems.

#3: Soldiers and People
Develop the engineering talent to support both Science and Technology and the aviation and missile materiel enterprise
FY18 TOTAL REVENUE ($3.4B)

- Army, $269M
- SOCOM, $14M
- Other PEO, $265M
- DARPA, $41M
- Non Govt, $1M
- Other Fed Gov, $10M
- Other DoD, $177M
- MDA, $346M
- Air Force, $134M
- Navy, $125M
- Marines, $38M
- Non-S&T RDTE, $52M
- Procurement Mission, $5M
- OMA Mission/OCO (RDECOM), $45M
- AMCOM, $197M
- PEO AVN, $664M
- Aviation S&T, $241M
- Missile S&T, $273M
- ARMY $2.5B (74%)
The U.S. Army Modernization Strategy has one focus: to make Soldiers and units more lethal to deploy, fight, and win our Nation's wars.
TOP AVIATION S&T INITIATIVES

PLATFORMS
- Structures
- Sustainment
- Concept Design & Assessment

MISSION SYSTEMS
- Survivability
- Avionics & Networks

VEHICLE MANAGEMENT & CONTROL AND ROTORS
- Rotors
- Vehicle Management & Control

MAJOR PROGRAM AREAS
- Joint Multi-Role Technology Demonstration
- Degraded Visual Environment – Mitigation
- Next Generation Tactical UAS Technology Demonstration

POWER
- Engines & Other Power Sources
- Drives

BASIC RESEARCH
- Computational Aeromechanics
- Experimental Aeromechanics

AUTONOMOUS AND UNMANNED SYSTEMS
MISSILE S&T ALIGNMENT TO ARMY MODERNIZATION PRIORITIES

**Army Modernization Priorities**

**LONG RANGE PRECISION FIRES**
Technologies for the development, integration and delivery of long range fires at the tactical, operational, and strategic echelons to restore overmatch, improve deterrence, and disrupt A2AD on a complex, contested and expanded battlefield.

**AIR & MISSILE DEFENSE**
Technologies for the development of mobile air defense systems that reduce the cost curve of missile defense, restore overmatch, survive volley-fire attacks, and operate within sophisticated A2AD and contested domains.

**AVIATION CENTER**

**MANEUVER CENTER**

**FUTURE vertical LIFT**
Technologies for the development, integration, and delivery of aviation launched air-to-ground and air-to-air missile systems to restore overmatch within sophisticated A2AD and contested domains.

**NEXT GENERATION COMBAT VEHICLE**
Technologies for active protection systems and enhanced lethal effects that will increase our ability to survive and win in the complex and densely urbanized terrain of an intensely lethal and distributed battlefield where all domains are continually contested.

**LONG RANGE PRECISION FIRES**

**Air & Missile Defense**

**Fires Center of Excellence**

**Aviation Center**

**Engage First**

**Expand the Dome**

**On the Move**
CCDC AVIATION & MISSILE CENTER
MISSILE S&T ALIGNED TO ARMY PRIORITIES

LONG RANGE PRECISION FIRES
- Tail-Controlled GMLRS (TG) Technology Insertion
- Low-Cost Tactical Extended Range Missile (LC-TERM)
- Land-Based Anti-Ship Missile (LBASM)
- Long Range Maneuverable Fires

NEXT GENERATION COMBAT VEHICLE
- Hard Kill Active Protection System (APS)
- Next Generation Close Combat Missile Tech Maturation (NGCCM TMI)
- Lethality
- Fire Control

FUTURE VERTICAL LIFT
- Modular Missile Technologies (MMT)
- Modular Open System Architecture for Missiles

AIR & MISSILE DEFENSE
- Multi-Role Guided Missile - Extended Range (MRGM-ER)
- Single Multi-Mission Attack Missile (SMAM) Technologies
- Multiple Simultaneous Engagement Technologies (MSET)
- Maneuver Air Defense Tech (MADT)
- Digital Array Radar Testbed (DART)
- Low-Cost Extended Range Air Defense (LOWER AD)
- Man-Portable Air Defense System (MANPADS)
- NexGen Lower Tier Missile Technologies
“You can only deter your opponent if your opponent believes that you have the will and the capability...readiness has a deterrent value, as well as a war-fighting value.”

Gen. Mark A. Milley, Chief of Staff of the Army
Web Site
www.amrdec.army.mil

Facebook
www.facebook.com/ccdc.avm

Instagram
www.instagram.com/CCDC_AVM

Twitter
@CCDC_AVM

Public Affairs
usarmy.redstone.ccdc-avmc.mbx.pao@mail.mil